Client Information

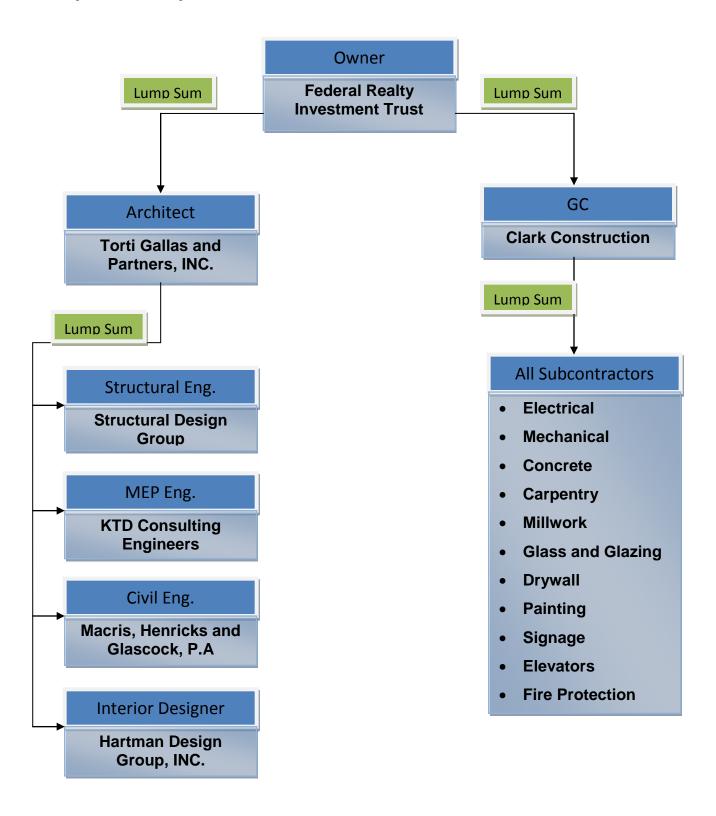
Federal Realty Investment Trust is an equity real estate investment trust specializing in the ownership, management, development, and redevelopment of high quality retail assets. Federal Realty's portfolio contains approximately 19.5 million square feet located primarily in strategic metropolitan markets in the Northeast, Mid-Atlantic, and California. Federal Realty is building the Apartment Complex project in Bethesda because is one of the growing areas in the DC area. Bethesda is actually one of the most expensive places to live in DC. Build in Bethesda is very profitable. The market is very large and the demand in increasing every day. Federal Realty is a very experienced company, and they know that a well done project in Bethesda will certainly be a very profitable project.

Since Federal Realty is a very experienced company and they know how the construction process works, they know that there will always be changes in every project. They know that change orders are part of the construction process. There is a \$450,000 contingency that they expect to take care of any unexpected changes. Federal Realty expects the project to be completed in a high quality manner, within budget and on schedule. Construction is scheduled to be 30 months in duration, with a substantial completion on April 11, 2008.

Federal Realty also expects the project to be completed in a safe way. Completing the project without any accident is one of the main goals for this project. Federal Realty as well as Clark construction, who is actually performing the job, think that a project with accidents cannot be considered a successful project. Measures have been taken to ensure the safety for everyone during and after the project is completed. OSHA guidelines are expected to be followed during construction for the safety of every worker. Fencing, traffic control, temporary lighting, access control, security monitoring, and life safety protection such as fire alarms and fire suppression systems, are some of the items that were incorporated during construction to assure the safety of every employee.

Federal Realty gave Clark the responsibility to complete the project. The sequencing of the project is up to Clark. The owner just cares about the final product. If the project is completed on time, within budget and with the expected quality, then the owner will be satisfied.

Project Delivery Method



The delivery method that is being used on this project is design-bid-build. The owner hired design professionals to prepare a complete set of contract document, which includes plans and specifications, for a set price. The owner paid the designers a fixed price, called lump sum, to complete the project plans and specifications. Once the contract documents were complete and given to the owner, then the owner hired a GC. Clark Construction was hired by the owner to manage the project. The owner negotiated with Clark the contract, and they agreed on a lump sum type of contract. The owner will pay Clark \$50,047,750 to complete the entire project. However, Clark will have to manage all of the subcontractor's contracts. The owner only has a contract with Clark.

Once Clark was awarded the project, they had to hire every subcontractor for every trade. Clark bid the project, and a different contractor was selected for every trade. As in most of the projects, the lowest bidder was selected. Clark then needed to negotiate the contract with every subcontractor. The contract type used for all the subcontractors was a lump sum contract. The cost of the work for every trade was set before any work began. Moreover, every subcontractor needed insurance and bonds before starting any activity.

When an owner is not very experienced with the construction process, the best thing to do is to hire someone else to manage the entire project. Design-bid-build is a delivery method that allows the owner to allocate responsibilities and risks to others. The GC and the designers have all the responsibilities. Moreover, design-bid-build is the most common and best known delivery method. The down side of this delivery method is that the GC enters the project once the design of the building is completed. The GC has no input on design. Statistics have shown that projects tend to run smoother when the contractor has input on the design of the building.

When selecting design-bid-build, the preferred contract types for designers and subcontractors are lump sum contracts. For the GC was used a lump sum type of contract as well. The lump sum contract motivates the GC to do a better job because if they complete the project for less than the contract amount, then they get to keep the money saved.

Local Conditions

In 1899, Congress passed a law that limited buildings to the height of the Capitol. That law is still effective today. For this reason most buildings in the area are designed as cast-in- place concrete rather than with a structural steel frame. The floor-to-floor height that can be achieved with concrete is lower than the floor-to-floor height that is achieved with steel. That is why concrete is used more in DC than in other cities. Designers can typically get one more floor out of a building when designed by concrete rather than steel. However, Apartment Complex is a hybrid. Cast-in-place concrete was definitely not the preferred method by the builder. This project combines many different materials such as; wood, steel, metal studs, as well as concrete.

The Apartment Complex is located just few blocks away from a metro and bus stop. Most of the workers take the bus or the metro to get to the jobsite. However, there are 5 public parking garages that are located within three blocks from the construction site. Those public garages are somewhat expensive and are not covered by the owner. However, some of the employees park their cars there because it is convenient.

On the jobsite, there are two thirty cubic yard open-top dumpster that are removed constantly. There is a \$135 charge per pull, in addition to a \$15 fuel surcharge and a \$60 disposal charge. Laboratory tests results of soil from 8 test borings that were taken revealed that there were mainly three types of soils; reddish brown clayey sand with gravel, reddish brown sandy lean clay, and reddish brown silty sand with gravel. Groundwater was not encountered in any of the test borings taken.

The weather in Washington DC changes drastically during summer and winter. The positioning of the building as well as the exterior wall types will determine the size of the HVAC system to maintain the building in the optimum temperature on each season. One of my analyses will be to examine the exterior wall to determine if the addition of insulation material could reduce the size of the HVAC system. If this is true, then a large amount of energy could be saved.

Building Systems Summary

Cast in Place Concrete

The Apartment Complex has a structural systems that combines many materials. Concrete is only used up to the second floor slab. Cast in place concrete is used in this project for the foundations, perimeter wall up to the second floor, and beams and columns that extend from G2 level until the first floor slab. Sheeting panels with formwork in the form of walers were used for foundation formwork. For the concrete perimeter wall, vertically arranged upright timbers were used. Timbers were diagonally braced at both sides. Beams and columns formwork where prefabricated depending on the size of each member. Most of the concrete was placed with crane and bucket or by direct chute.

Precast Concrete

Precast concrete members were used only for decorative purposes. Those concrete parts that were hard to build with formwork were ordered as precast concrete and then installed. Two tower Cranes were used to mobilize precast members. Crane #1 was a Pecco SK 400, with radius of 220 feet and a capacity of 10,100 lbs at the tip. Tower Crane #2 was a Peiner SK 315 with radius of 180 feet and a capacity of 11,900 lbs at the tip. The location of both cranes are shown on the site plan on page 13.

Mechanical System

The mechanical system consists on three rooftop units, and two air-handling units located on the first floor that serves the retail stores, restaurants, and the parking garage. The HVAC system for the residential area consists on individual HVAC units for each apartment. The mechanical system contains thirteen different types of pumps. It has two 400 ton chillers and two 1200 GPM 400 ton cooling towers. The air is distributed through galvanizes steel ducts that run all throughout the building. The building has a wet pipe sprinkler system. Smoke detectors as well as sprinklers are located all throughout the building.

Electrical System

There are two 480/277V, three phase, 2500A main breakers that control the residential area, and two 120/208V, three phase, 2000A main breakers that control the retail and restaurant service. Lighting consists of fluorescent and halide fixtures, ranging from 120-277V, which are common throughout the building. The electrical room is located on the northwest corner of garage G1.

Masonry

Both load bearing and veneer masonry was used in this project. Load bearing masonry was only used on interior space. CMU and brick was used as load bearing masonry. CMU's were installed with lintels, rebar, and stirrups. Brick was installed with steel angles. Veneer masonry was used on most of the façade of the building for aesthetic purposes. Most of the veneer masonry was 4" face brick tied with masonry ties.

Excavation Support

Since there are two underground parking garages, excavation support for a deep excavation was needed. Tiebacks and anchors were used for the support system. This support system avoids having a congested site. The absence of interior obstructions makes the excavation process much easier. This support system is mainly used in projects where space is limited and congestion needs to be avoided.

Project Cost Evaluation

Total Project Cost

Total Cost: \$50,047,750

Square Foot Cost: \$118.19/SF

Actual Project Cost

Total Cost: \$42,584,209

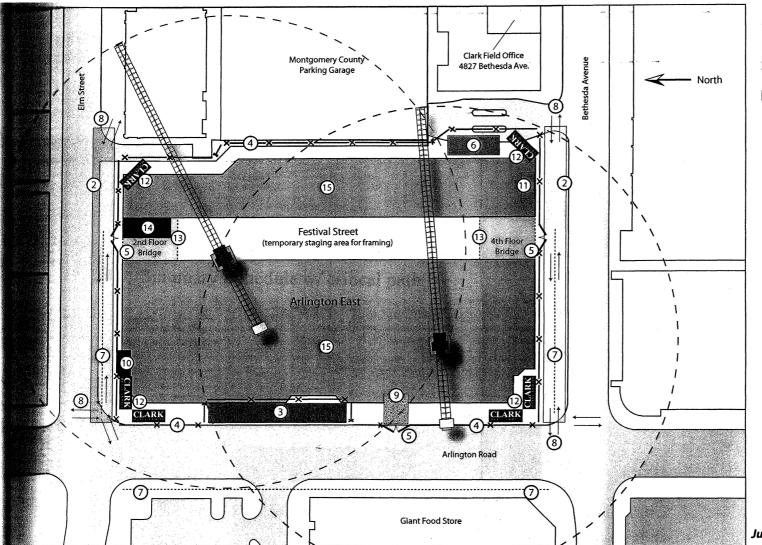
Square Foot Cost: \$100.56/SF

		Square Foot	% of Total
	Total Cost of System	Cost	Project Cost
Ctrustural Cyatana	¢11 //1 204	¢27.Γ4	27.200/
Structural System	\$11,661,204	\$27.54	27.38%
Mechanical System	\$4,304,705	\$10.17	10.11%
Electrical System	\$3,470,420	\$8.20	8.15%
Roofing System	\$1,709,289	\$4.04	4.01%
Fire Protection	\$1,491,035	\$3.52	3.50%
Masonry	\$2,367,829	\$5.59	5.56%

E. Site Plan of existing condition



Above is an aerial picture of Bethesda, Maryland. The red portion is where the Apartment Complex project is located. The project is located close to Wisconsin Ave which is shown in yellow. On the following page, pictures of a 3D model of the building, as well as a site plan of the project showing all temporary facilities are shown.



Arlington East

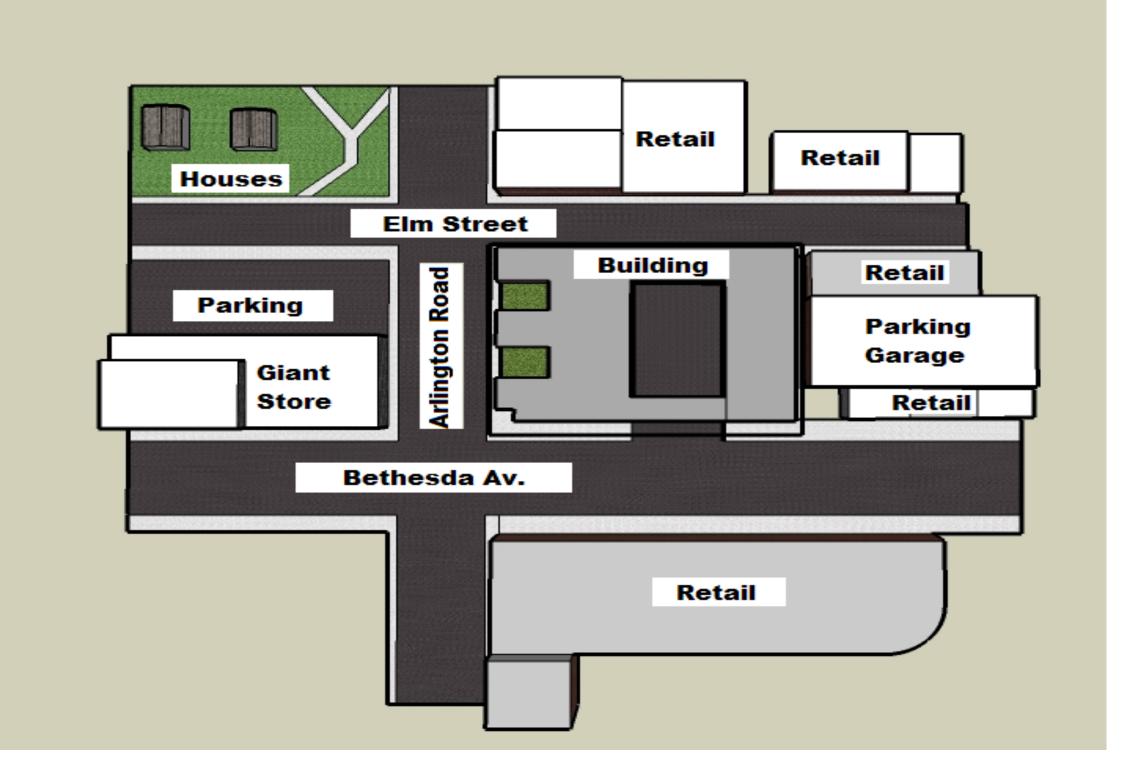
Bethesda, MD **Site Utilization Plan**

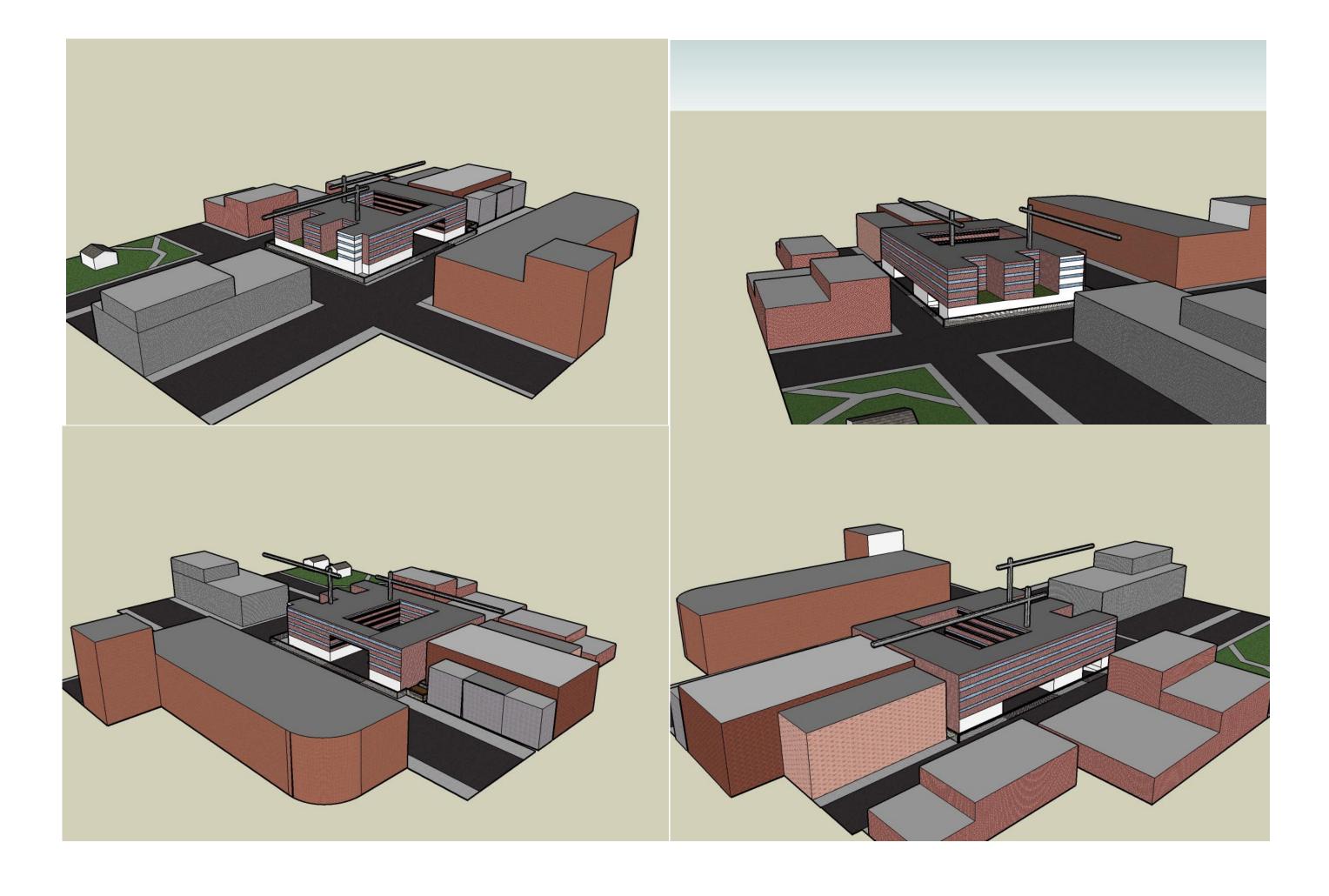
Legend

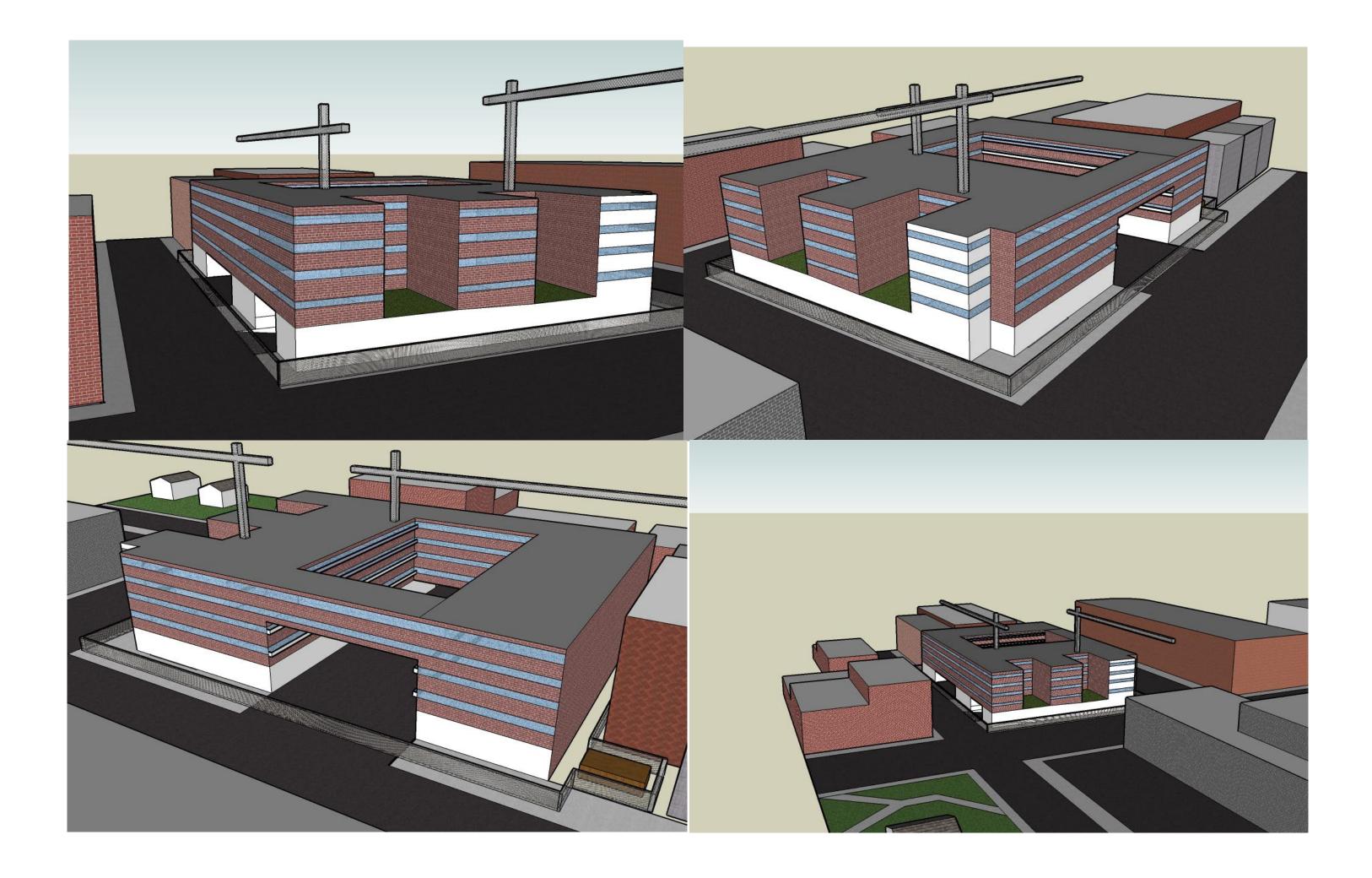
- 1. Existing Building
- 2. Covered Walkway
- 3. Concrete Staging Area
- 4. x Construction Fence
- 5. 🗦 Construction Entrance & Gate
- 6. M & L Field Office
- 7. ···· Overhead Power Line
- B. ← Pedestrian Traffic
- 9. 🕅 Proposed Construction Enterance
- 10. Temporary Power
- Temporary Water
- 12. CLARK Clark Sign
- 13. 🏽 Bridge
- 14. Trash Chute w/ Dumpster Below
- 15. New Building

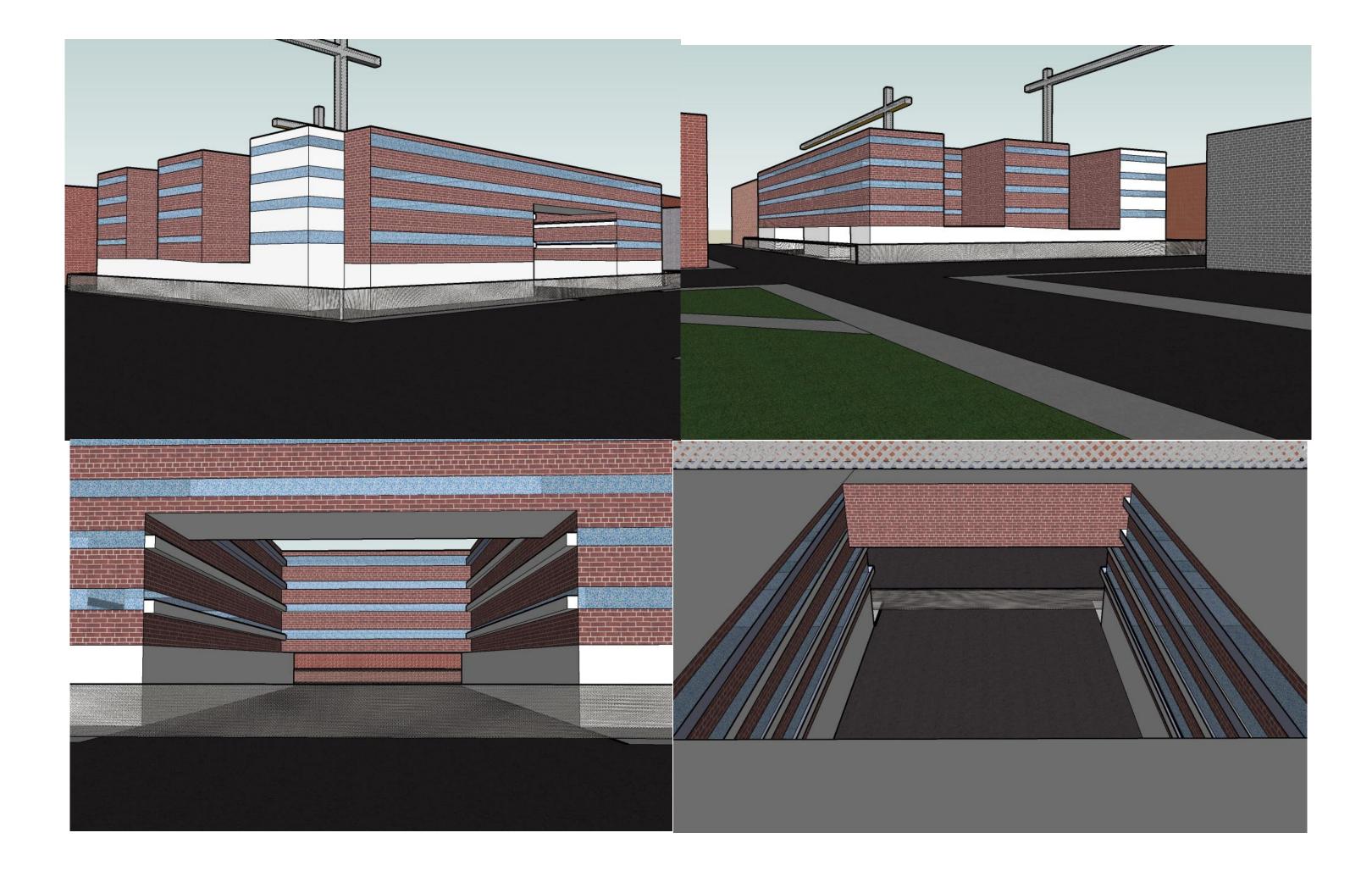
June 28, 2006









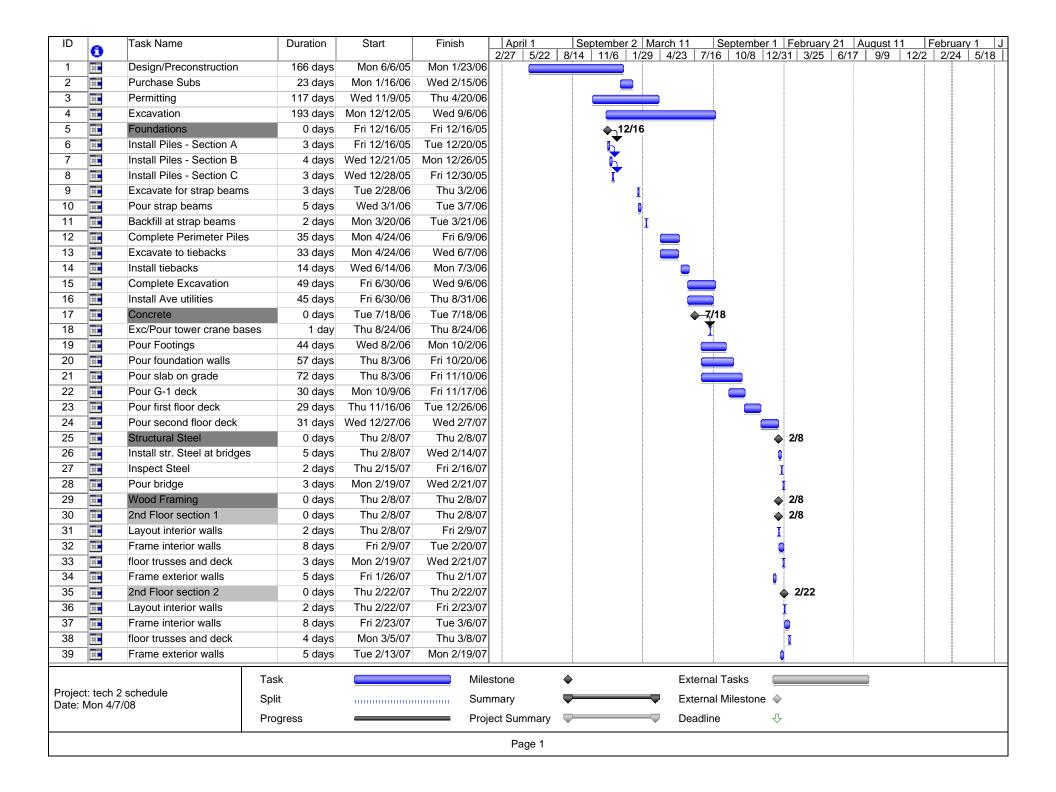


Project Schedule Summary

Foundations are the most critical activity for maintaining the project on schedule. Once the foundations are set in place, the rest of the activities should be done within schedule. That is why many CM/GC subcontract all of the activities besides foundations. They know that by self performing the foundations, they will have more control of the schedule.

Since the Apartment Complex structural system is mainly wood, the delivery of wood to the site was very important to the schedule. A delay on wood delivery would delay the entire project. Once the foundations were in place, and the wood was delivered to the project, finishing the structure became just another everyday activity.

The project summary schedule for the Apartment Complex project is shown on the next page.



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40		2nd Floor section 3	0 days	Fri 3/9/07	Fri 3/9/07								
41		Layout interior walls	2 days	Fri 3/9/07	Mon 3/12/07					ļ			
42	<u> </u>	Frame interior walls	8 days	Mon 3/12/07	Wed 3/21/07					<u> </u>			
43	III	floor trusses and deck	4 days	Tue 3/20/07	Fri 3/23/07					Ī			
44	III	Frame exterior walls	5 days	Mon 2/26/07	Fri 3/2/07					Ū			
45	III	3rd Floor section 1	0 days	Thu 2/22/07	Thu 2/22/07					2/22			
46	III	Layout interior walls	2 days	Thu 2/22/07	Fri 2/23/07					I			
47	III	Frame interior walls	8 days	Fri 2/23/07	Tue 3/6/07					<u> </u>			
48	III	floor trusses and deck	3 days	Mon 3/5/07	Wed 3/7/07					Ĭ			
49	III	Frame exterior walls	5 days	Tue 2/20/07	Mon 2/26/07					P			
50		3rd Floor section 2	0 days	Fri 3/9/07	Fri 3/9/07					♦ 3/9			
51	III	Layout interior walls	2 days	Fri 3/9/07	Mon 3/12/07					Ī			
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57	-	Frame interior walls	9 days	Thu 3/29/07	Tue 4/10/07					<u> </u>			
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59	111	Frame exterior walls	5 days	Wed 3/21/07	Tue 3/27/07					0			
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62	1	Frame interior walls	8 days	Wed 2/14/07	Fri 2/23/07					o de la companya della companya della companya de la companya della companya dell			
63		floor trusses and deck	16 days	Wed 3/7/07	Wed 3/28/07								
64		Frame exterior walls	5 days	Tue 3/6/07	Mon 3/12/07					0			
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66	111	Layout interior walls	2 days	Thu 3/29/07	Fri 3/30/07					I			
67		Frame interior walls	8 days	Mon 4/2/07	Wed 4/11/07								
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70	111	4th Floor section 3	0 days	Mon 4/16/07	Mon 4/16/07					♦ 4/1	6		
71	1	Layout interior walls	2 days	Mon 4/16/07	Tue 4/17/07					Ī			
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73	III	floor trusses and deck	4 days	Fri 4/27/07	Wed 5/2/07								
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76		Layout interior walls	2 days	Mon 3/26/07	Tue 3/27/07					T			
77	III	Frame interior walls	8 days	Wed 3/28/07	Fri 4/6/07					- -			
78	III	floor trusses and deck	3 days	Thu 4/5/07	Mon 4/9/07								
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102	R-I Inspection	5 days	Fri 11/9/07	Thu 11/15/07											0			
103	2nd floor section 1	0 days	Wed 2/21/07	Wed 2/21/07								•	2/21					
104	Sprinkler / Mechanical R	-I 8 days	Wed 2/21/07	Fri 3/2/07														
105	Electrical R-I	8 days	Tue 2/27/07	Thu 3/8/07														
106	R-I Inspection	6 days	Mon 3/5/07	Mon 3/12/07								ľ	0					
107	2nd floor section 2	0 days	Wed 3/7/07	Wed 3/7/07									♦ 3/7					
108	Sprinkler / Mechanical R	-I 8 days	Wed 3/7/07	Fri 3/16/07									0					
109	Electrical R-I	8 days	Tue 3/13/07	Thu 3/22/07									0					
110	R-I Inspection	6 days	Mon 3/19/07	Mon 3/26/07									0					
111	2nd floor section 3	0 days	Thu 3/22/07	Thu 3/22/07									→ 3/22					
112	Sprinkler / Mechanical R	-I 8 days	Thu 3/22/07	Mon 4/2/07														
113	Electrical R-I	8 days	Wed 3/28/07	Fri 4/6/07									0					
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115	3rd floor section 1	0 days	Wed 4/11/07	Wed 4/11/07									4/1	1				
116	Sprinkler / Mechanical R	-I 8 days	Wed 4/11/07	Fri 4/20/07									0					
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127 4th floor section 1 0 days Tue 5/15/07 Tue 5/15/07	♦ 5/15
128 Sprinkler / Mechanical R-I 7 days Tue 5/15/07 Wed 5/23/07	
129 Electrical R-I 8 days Mon 5/21/07 Wed 5/30/07	
130 R-I Inspection 6 days Fri 5/25/07 Fri 6/1/07	
131 4th floor section 2 0 days Thu 5/24/07 Thu 5/24/07	♦ 5/24
132 Sprinkler / Mechanical R-I 8 days Thu 5/24/07 Mon 6/4/07	0
133 Electrical R-I 8 days Thu 5/31/07 Mon 6/11/07	
134 R-I Inspection 6 days Wed 6/6/07 Wed 6/13/07	
135 4th floor section 3 0 days Tue 6/5/07 Tue 6/5/07	♦ 6/5
136 Sprinkler / Mechanical R-I 8 days Tue 6/5/07 Thu 6/14/07	
137 Electrical R-I 8 days Tue 6/12/07 Thu 6/21/07	
138 R-I Inspection 6 days Wed 6/20/07 Wed 6/27/07	
139 5th floor section 1 0 days Thu 6/28/07 Thu 6/28/07	♦ 6/28
140 Sprinkler / Mechanical R-I 9 days Thu 6/28/07 Tue 7/10/07	
141 Electrical R-I 8 days Thu 7/5/07 Mon 7/16/07	
142 R-I Inspection 6 days Wed 7/11/07 Wed 7/18/07	
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144 Sprinkler / Mechanical R-I 8 days Wed 7/11/07 Fri 7/20/07	0
145 Electrical R-I 8 days Tue 7/17/07 Thu 7/26/07	
146 R-I Inspection 6 days Fri 7/20/07 Fri 7/27/07	
147 5th floor section 3 0 days Mon 7/23/07 Mon 7/23/07	♦ 7/23
148 Sprinkler / Mechanical R-I 8 days Mon 7/23/07 Wed 8/1/07	0
149 Electrical R-I 8 days Fri 7/27/07 Tue 8/7/07	Q
150 R-I Inspection 6 days Thu 8/2/07 Thu 8/9/07	
151 Unit Finishes 0 days Tue 7/3/07 Tue 7/3/07	♦ 7/3
152 2nd floor section 1 103 days Tue 7/3/07 Thu 11/22/07	
153 2nd floor section 2 88 days Thu 7/26/07 Mon 11/26/07	
154 2nd floor section 3 88 days Wed 8/8/07 Fri 12/7/07	
155 3rd floor section 1 103 days Tue 7/3/07 Thu 11/22/07	
156 3rd floor section 2 87 days Tue 8/21/07 Wed 12/19/07	
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157		3rd floor section 3	90 days	Fri 8/31/07	Thu 1/3/08	2/2	7 5/22 8	3/14	11/6	1/29	4/23	7/16	5 10/8	3 12/	31 3/25	6/17	9/9	12/2	2/2	4 5/
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158		4th floor section 1	104 days	Thu 9/13/07	Tue 2/5/08															
159	-	4th floor section 2	90 days	Fri 10/5/07	Thu 2/7/08															
160		4th floor section 3	,	Wed 10/17/07	Wed 2/20/08													-		
161		5th floor section 1	104 days	Thu 9/13/07	Tue 2/5/08															
162	III	5th floor section 2	90 days	Tue 10/30/07	Mon 3/3/08															
163	111	5th floor section 3	91 days	Fri 11/9/07	Fri 3/14/08															
164		MEP	0 days	Tue 7/3/07	Tue 7/3/07											♦ 7/3				
165		Install RTU's 1,2, and 3	6 days	Tue 7/3/07	Tue 7/10/07											0				
166		Pipe RTU's	10 days	Wed 7/11/07	Tue 7/24/07															
167		Wire RTU's	10 days	Wed 7/11/07	Tue 7/24/07															
168		Install RT condensing units	21 days	Tue 7/3/07	Tue 7/31/07															
169		Wire RT condensing units	20 days	Wed 7/18/07	Tue 8/14/07															
170		Vertical Transportation	0 days	Tue 7/3/07	Tue 7/3/07											♦ 7/3	}			
171		Install elevator 1	101 days	Tue 7/3/07	Tue 11/20/07															
172		Install elevator 2	81 days	Tue 7/3/07	Tue 10/23/07															
173	1	Install elevator 3 and 4	101 days	Tue 7/3/07	Tue 11/20/07															
174		Final Cleaning	15 days	Mon 3/17/08	Fri 4/4/08															
175	III	Testing andFinal Inspection	0 days	Wed 8/29/07	Wed 8/29/07											4	8/29			
176	III	Parking Garage	10 days	Wed 8/29/07	Tue 9/11/07											(
177	III	1st floor	5 days	Thu 1/24/08	Wed 1/30/08												_	ď		
178	1	2nd floor	5 days	Mon 3/17/08	Fri 3/21/08													7		
179	1	3rd floor	5 days	Mon 3/24/08	Fri 3/28/08														7	
180	-	4th floor	5 days	Mon 3/31/08	Fri 4/4/08														7	
181	111	5th floor	5 days	Mon 4/7/08	Fri 4/11/08														1	
182	III	Substantial Completion	0 days	Fri 4/11/08	Fri 4/11/08														å	4/11

